

THE MCP SYSTEM

Standard Ozone Generators and Ancillary Equipment



Overview

The MCP series is a new line of high technology ozone generators that are compact, inexpensive and easy to use. Ozone is produced from dried air or from oxygen. The ozone generators are assembled with modular electrodes and electronics; reducing the number and cost of spare parts. The ozone generators are fully assembled and factory tested. They include mechanical, electrical and instrument fittings.

The MCP system is manufactured by Ozono Elettronica Internazionale of Milan Italy. They have been producing ozone generators and associated equipment for over 30 years and have installed more than 400 systems in that time.

MCP Ozone Generators are available from Spartan Environmental Technologies, LLC
Phone : 800-492-1252, Fax : 440-368-3569, e-mail : info@SpartanWaterTreatment.com
Web : www.SpartanWaterTreatment.com

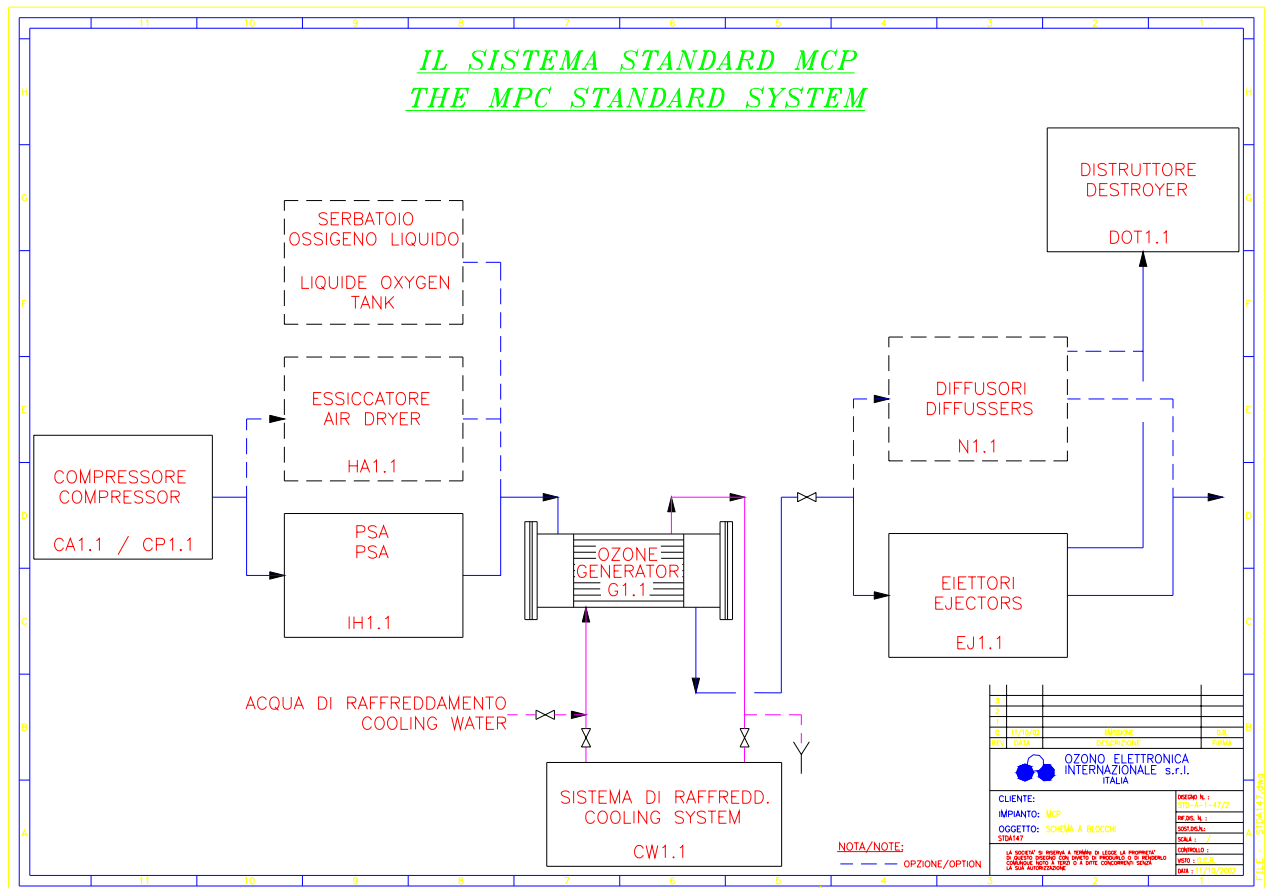
UNIT	PRODUCTION		AIR NECESSARY	COOLING WATER	POWER Absorbed	DIMENSIONS	WEIGHT
	lb O ₃ /day		SCFM (100 psi – T<95°F)	gpm (T=15-20°C)	kW	ft L x W x h	lb
	Air	Oxygen					
MCP 1	2.6	4.0	1.4	0.44	0.8	2.0 x 2.6 x 6.2	330
MCP 2	5.3	7.9	2.8	0.88	1.6	2.0 x 2.6 x 6.2	352
MCP 4	10.6	15.9	5.6	1.75	3.2	2.6 x 2.6 x 7.1	616
MCP 7	18.5	27.8	9.9	3.07	5.6	2.6 x 2.6 x 7.1	704
MCP 13	37.0	55.5	19.7	6.14	11.2	2.6 x 5.9 x 7.1	880

For General Information Purposes Only – Consult Spartan Environmental Technologies, LLC for Specific Systems

The following description refers to drawing: STD-A-1-47/2 shown below.

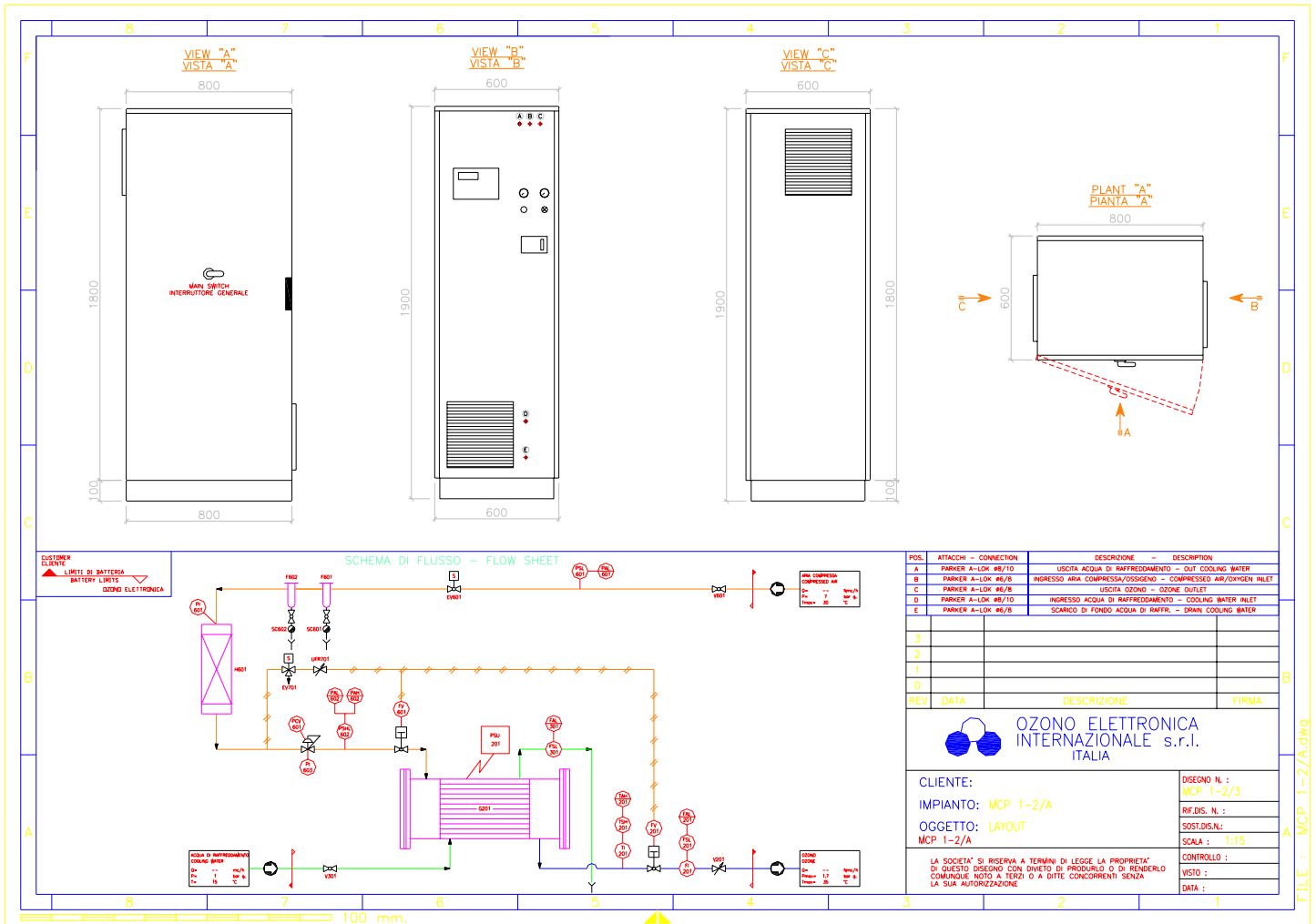
Ozone is produced from air or from oxygen. In the first case an air drying system HA1.1 is required while in the second case an oxygen producing system HP1.1 is needed. HP1.1 produces oxygen using the pressure swing adsorption method (PSA). In both cases compressed air is necessary from an existing internal network or produced from compressors CA1.1 or CP1.1. Alternatively oxygen can be supplied from a liquid storage tank (LOX).

If cooling water at 15-20°C is not available it can be substituted by a cooling water system CW1.1. After production, ozone must be introduced in the contact system (or process) this can be usually done with diffusers N1.1 or with ejectors EJ1.1. An ejector is used when the counter pressure in the receiving system is higher than that of the ozone generator. The residual ozone not reacted is normally destroyed by an ozone destroying system DOT1.1, to remove the ozone that was not transferred to the process in the contact basin.

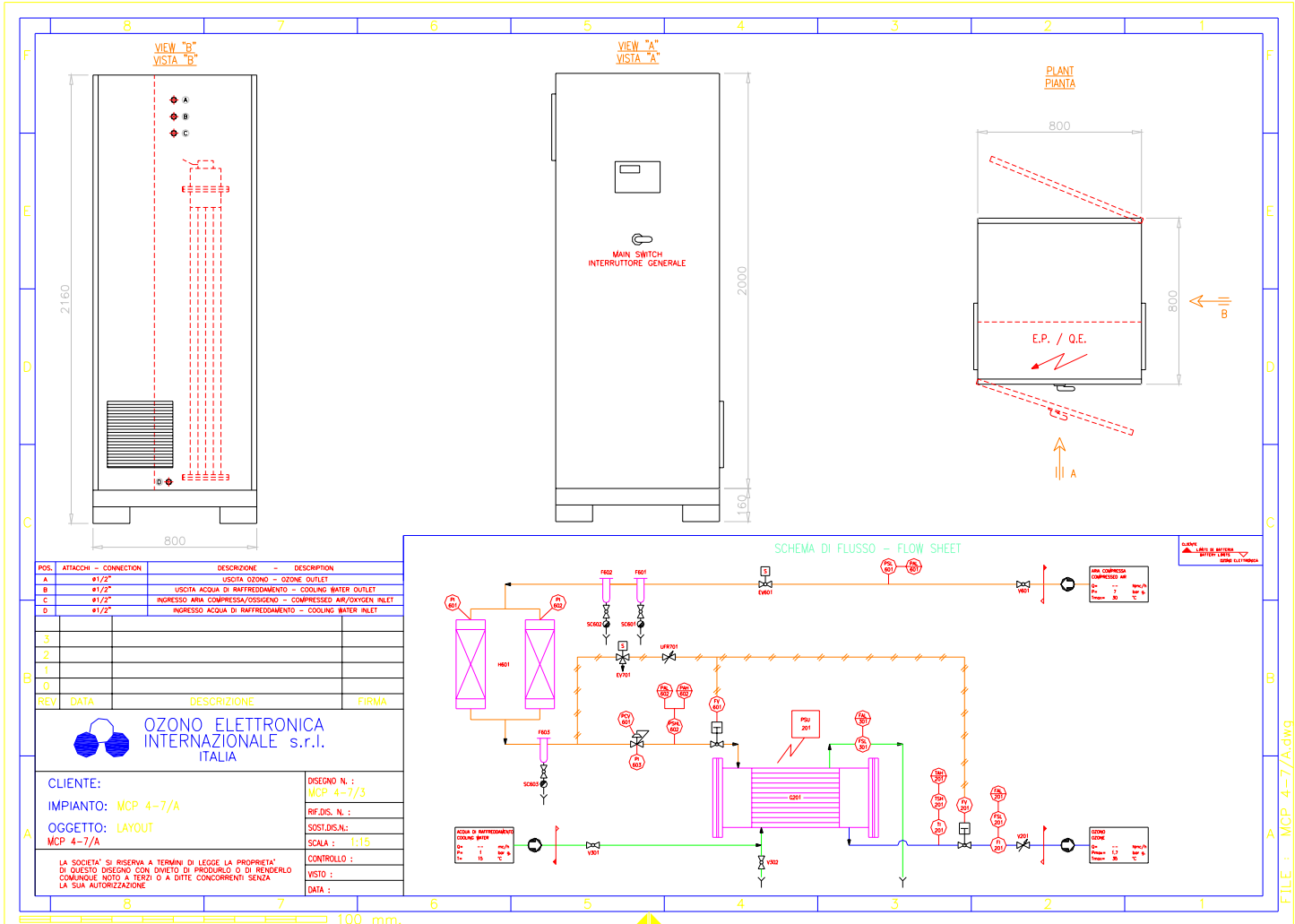


Drawing: STD-A-1-47/2

MCP Models 1 and 2

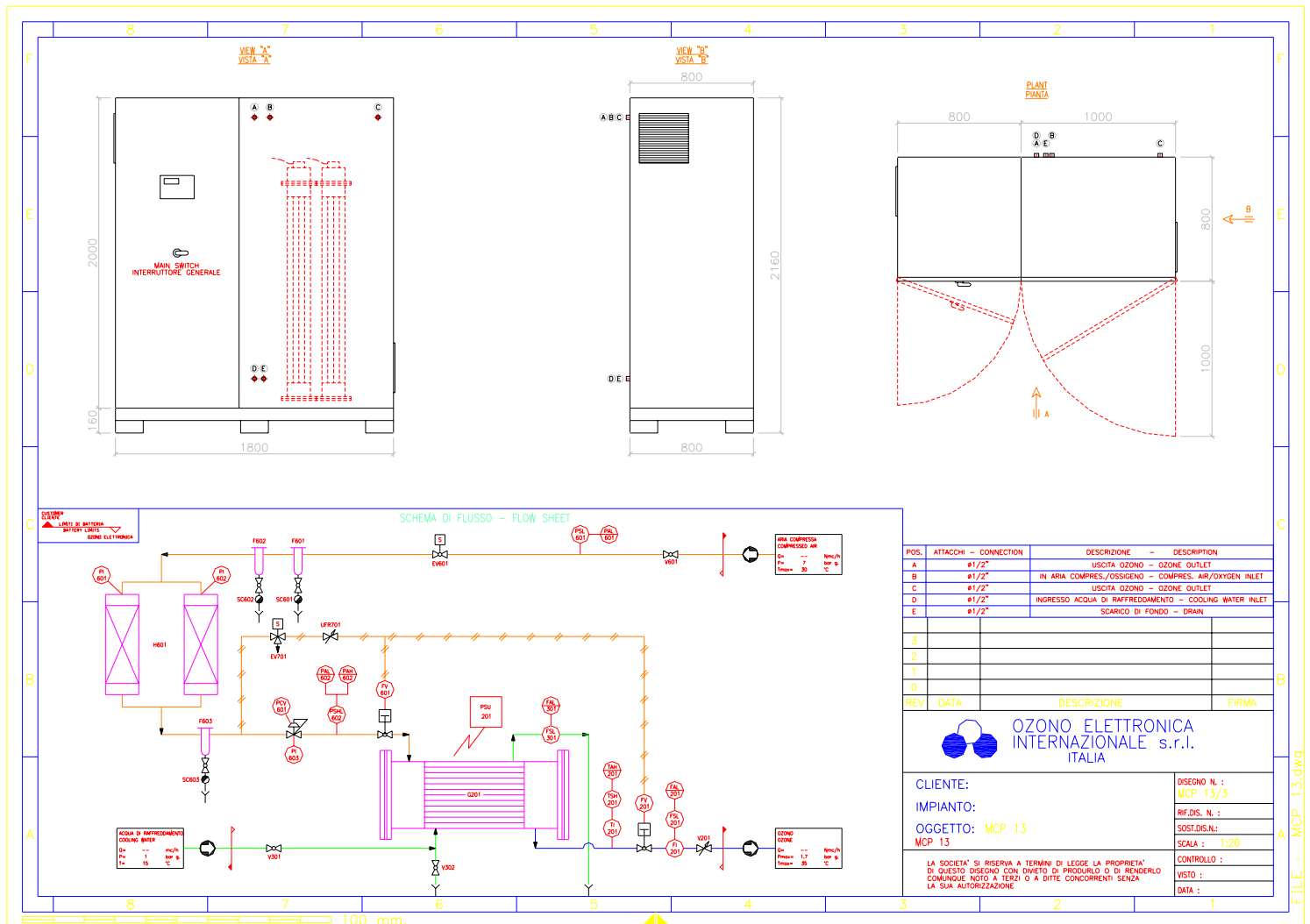


MCP Models 4 and 7



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Model MCP 13



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